

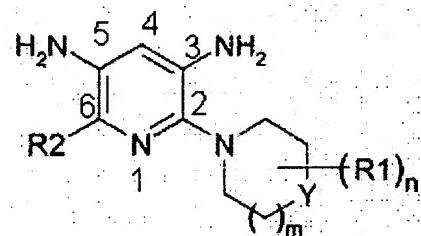
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Claim 29 is currently amended herein.

Listing of Claims:

1. (original) A dye composition comprising, in a medium that is suitable for dyeing:

- at least one oxidation base, and
- at least one 2,3,5-triaminopyridine coupler of formula (I), or a corresponding addition salt thereof:



Formula (I)

wherein:

- R_1 is chosen from:
 - a halogen atom;
 - a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, carboxyl, (C₁-C₄) alkoxy carbonyl, carboxamido, C₁-C₄ alkylsulphonyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonamido and NR₃R₄ radicals
 - a carboxyl radical;

- a (C₁-C₄)alkoxycarbonyl radical;
 - a carboxamido radical;
 - a (C₁-C₄)alkylcarboxamido radical;
 - a sulphinic radical;
 - a C₁-C₄ alkylsulphonyl radical;
 - a C₁-C₄ alkylsulphonamido radical;
 - a hydroxyl radical;
 - a C₁-C₄ alkoxy radical;
 - a C₂-C₄ hydroxyalkoxy radical;
 - a radical chosen from amino, monoaminoalkoxy and diaminoalkoxy radicals;
 - a C₁-C₄ thioether radical;
 - a C₁-C₄ alkylsulphoxy radical;
 - a sulphonic radical; and
 - a radical NR₅R₆;
- R₃, R₄, R₅ and R₆, which may be identical or different, are chosen from a hydrogen atom; a C₁-C₄ alkylsulphonyl radical; a (C₁-C₄) alkylcarbonyl radical in which the alkyl radical may be substituted with at least one hydroxyl radical; an arylcarbonyl radical, the aryl radical possibly being substituted with a radical chosen from hydroxyl, C₁-C₄ alkoxy, amino and (di)(C₁-C₄)alkylamino; a carboxamido radical; a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonyl, C₁-C₄ alkylsulphonamido, carboxyl, carboxamido, C₁-C₄ alkylsulphoxy, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals;

- R_2 is chosen from a hydrogen atom, a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl and C₁-C₂ alkoxy radicals,
- n ranges from 0 to 7,
- m is 0, 1 or 2,
- Y is chosen from an oxygen atom, a radical C(R_8)₂ and a radical NR₇ in which R₇ has the same meaning as R₃, and
- R_8 , which may be identical or different, is chosen from a hydrogen atom or has the same meaning as R₁.

2. (original) The composition according to claim 1, wherein R₁ is chosen from a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₂ alkoxy, amino and (di)alkylamino radicals; a hydroxyl radical; an amino radical;(di)alkylamino radicals; and a C₁-C₂ alkyl radical optionally substituted with a radical chosen from hydroxyl and amino radicals.

3. (original) The composition according to claim 1, wherein R₂ is chosen from a hydrogen atom and an alkoxy radical.

4. (original) The composition according to claim 1, wherein n is chosen from 0 or 1.

5. (original) The composition according to claim 1, wherein R₃, R₄, R₅, R₆ and R₇, which may be identical or different, are chosen from a hydrogen atom, a carboxamido radical, a C₁-C₄ alkyl radical optionally substituted with at least one radical

chosen from hydroxyl, C₁-C₄ alkoxy, carboxamido, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals.

6. (original) The composition according to claim 1, wherein R₃, R₄, R₅, R₆ and R₇, which may be identical or different, are chosen from a hydrogen atom and from methyl, ethyl, 2-carboxyethyl, 2-hydroxyethyl, 3-hydroxypropyl, 2,3-dihydroxypropyl, 2-hydroxy-3-aminopropyl and 3-hydroxy-2-aminopropyl radicals.

7. (original) The composition according to claim 6, wherein R₃, R₄, R₅, R₆ and R₇, which may be identical or different, are chosen from a hydrogen atom, a methyl radical, a 2-hydroxyethyl radical and a 2,3-dihydroxypropyl radical.

8. (original) The composition according to claim 1, wherein the nitrogen in position 2 of the ring, together with Y and m, form a heterocyclic radical chosen from pyrrolidines, piperidines, homopiperidines, piperazines, homopiperazines and diazepanes.

9. (original) The composition according to claim 8, wherein the heterocycle is chosen from pyrrolidine, 2,5-dimethylpyrrolidine, 2-methylpyrrolidine, proline, 3-hydroxyproline, 4-hydroxyproline, 2,4-dicarboxypyrrolidine, 2-hydroxymethylpyrrolidine, 3-hydroxy-2-hydroxymethylpyrrolidine, 2,5-di(hydroxymethyl)-pyrrolidine, 2-carboxamidopyrrolidine, 3-hydroxy-2-carboxamidopyrrolidine, 2-(dimethylcarboxamido)pyrrolidine, 2-(dimethylcarboxamido)-3-hydroxypyrrrolidine, 3,4-dihydroxy-2-hydroxymethylpyrrolidine, 3-hydroxypyrrrolidine, 3,4-dihydroxypyrrrolidine, 3-aminopyrrolidine, 3-methylaminopyrrolidine, 3-dimethylaminopyrrolidine, 4-amino-3-hydroxypyrrrolidine, 4-methylamino-3-hydroxypyrrrolidine, 3-hydroxy-4-(2-

hydroxyethyl)aminopyrrolidine, piperidine, 2,6-dimethylpiperidine, 2-carboxypiperidine, 2-carboxamidopiperidine, 2-(dimethylcarboxamido)piperidine, 2-hydroxymethylpiperidine, 3-hydroxy-2-hydroxymethylpiperidine, 3-hydroxypiperidine, 4-hydroxypiperidine, 3-hydroxymethylpiperidine, homopiperidine, 2-carboxyhomopiperidine, 2-carboxamidohomopiperidine, piperazine, 4-methylpiperazine, diazepane, N-methylhomopiperazine and N- β -hydroxyethylhomopiperazine, and the addition salts thereof.

10. (original) The composition according to Claim 8, wherein the heterocycle is chosen from pyrrolidine, 2-methylpyrrolidine, 3-hydroxypyrrrolidine, 3-aminopyrrolidine, 3-(methylsulphonylamino)pyrrolidine, proline, 3-hydroxyproline, piperidine, hydroxypiperidine, homopiperidine, 4-methylpiperazine, diazepane, N-methylhomopiperazine and N- β -hydroxyethylhomopiperazine, and the addition salts thereof.

11. (original) The composition according to Claim 10, wherein the heterocycle is chosen from pyrrolidine, 3-hydroxypyrrrolidine, 3-aminopyrrolidine, 3-(methylsulphonylamino)pyrrolidine, proline, and 3-hydroxyproline.

12. (original) The composition according to claim 1, wherein R₁ is chosen from alkyl, amino, hydroxyalkyl and hydroxyl radicals, R₂ is hydrogen, m is 0 or 1, and n is 0, 1 or 2.

13. (original) The composition according to claim 1, wherein the at least one 2, 3, 5,-triaminopyridine coupler of formula (I) is chosen from:

N-(3,5-diaminopyrid-2-yl)pyrrolidine;
N-(3,5-diaminopyrid-2-yl)-2-methylpyrrolidine;
N-(3,5-diaminopyrid-2-yl)-2,5-dimethylpyrrolidine;
N-(3,5-diaminopyrid-2-yl)-2-hydroxymethylpyrrolidine;
N-(3,5-diaminopyrid-2-yl)proline;
N-(3,5-diaminopyrid-2-yl)-3-hydroxypyrrrolidine;
N-(3,5-diaminopyrid-2-yl)-2-carboxamidopyrrolidine;
N-(3,5-diaminopyrid-2-yl)-2-dimethylcarboxamidopyrrolidine;
N-(3,5-diaminopyrid-2-yl)-3,4-dihydroxypyrrrolidine;
N-(3,5-diaminopyrid-2-yl)-3-aminopyrrolidine;
N-(3,5-diaminopyrid-2-yl)-3-dimethylaminopyrrolidine;
N-(3,5-diaminopyrid-2-yl)piperidine;
N-(3,5-diaminopyrid-2-yl)-4-methylpiperazine; and

the addition salts thereof.

14. (original) The composition according to claim 1, wherein the at least one oxidation base is chosen from para-phenylenediamines, bis(phenyl)alkylenediamines, para-aminophenols, ortho-aminophenols and heterocyclic bases, and the addition salts thereof.

15. (original) The composition according to claim 1, wherein the at least one oxidation base is present in an amount ranging from 0.001% to 10% by weight relative to the total weight of the dye composition.

16. (original) The composition according to claim 1, wherein the at least one oxidation base is present in an amount ranging from 0.005% to 6% by weight relative to the total weight of the dye composition.

17. (original) The composition according to claim 1, comprising at least one additional coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene-based couplers and heterocyclic couplers other than the couplers of formula (I), and the addition salts thereof.

18. (original) The composition according to claim 1, wherein the at least one 2, 3, 5-triaminopyridine coupler and any additional couplers, if present, are present in a total amount ranging from 0.001% to 10% by weight relative to the total weight of the dye composition.

19. (original) The composition according to claim 1, wherein the at least one 2, 3, 5-triaminopyridine coupler and any additional couplers, if any, are present in a total amount ranging from 0.005% to 6% by weight relative to the total weight of the dye composition.

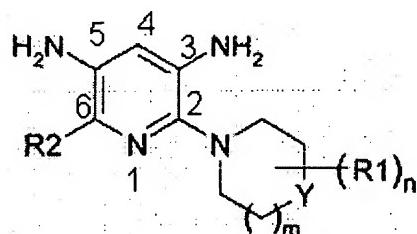
20. (original) The composition according to claim 1, wherein the dyeing medium is a cosmetic medium that is suitable for dyeing keratin fibers.

21. (original) The composition according to claim 1, further comprising an oxidizing agent.

22. (original) A process for the oxidation dyeing of keratin fibers, comprising applying a dye composition to said keratin fibers, in the presence of at least

one oxidizing agent, for a time allowing a desired color to be obtained, wherein said dye composition comprises, in a medium that is suitable for dyeing:

- at least one oxidation base, and
- at least one 2,3,5-triaminopyridine coupler of formula (I), or a corresponding addition salt thereof:



Formula (I)

wherein:

- R_1 is chosen from:
 - a halogen atom;
 - a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, carboxyl, (C₁-C₄) alkoxy carbonyl, carboxamido, C₁-C₄ alkylsulphonyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonamido and NR₃R₄ radicals;
 - a carboxyl radical;
 - a (C₁-C₄)alkoxycarbonyl radical;
 - a carboxamido radical;
 - a (C₁-C₄)alkylcarboxamido radical;
 - a sulphinic radical;

- a C₁-C₄ alkylsulphonyl radical;
 - a C₁-C₄ alkylsulphonamido radical;
 - a hydroxyl radical;
 - a C₁-C₄ alkoxy radical;
 - a C₂-C₄ hydroxyalkoxy radical;
 - a radical chosen from amino, monoaminoalkoxy and diaminoalkoxy radicals;
 - a C₁-C₄ thioether radical;
 - a C₁-C₄ alkylsulphoxy radical;
 - a sulphonic radical; and
 - a radical NR₅R₆;
- R₃, R₄, R₅ and R₆, which may be identical or different, are chosen from a hydrogen atom; a C₁-C₄ alkylsulphonyl radical; a (C₁-C₄) alkylcarbonyl radical in which the alkyl radical may be substituted with at least one hydroxyl radical; an arylcarbonyl radical, the aryl radical possibly being substituted with a radical chosen from hydroxyl, C₁-C₄ alkoxy, amino and (di)(C₁-C₄)alkylamino; a carboxamido radical; a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonyl, C₁-C₄ alkylsulphonamido, carboxyl, carboxamido, C₁-C₄ alkylsulphoxy, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals;
 - R₂ is chosen from a hydrogen atom, a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl and C₁-C₂ alkoxy radicals,
 - n ranges from 0 to 7,
 - m is 0, 1 or 2,

- Y is chosen from an oxygen atom, a radical C(R₈)₂ and a radical NR₇ in which R₇ has the same meaning as R₃, and
- R₈, which may be identical or different, is chosen from a hydrogen atom or has the same meaning as R₁.

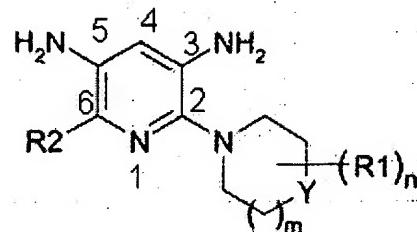
23. (original) The process according to Claim 22, wherein the at least one oxidizing agent is chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxidase enzymes.

24. (original) The process according to claim 22, wherein the at least one oxidizing agent is mixed at the time of use with the dye composition.

25. (original) The process according to claim 22, wherein the at least one oxidizing agent is applied to the fibers simultaneously with or sequentially to the dye composition, in the form of an oxidizing composition.

26. (original) A multi-compartment kit comprising a first compartment comprising a dye composition comprising, in a medium that is suitable for dyeing:

- at least one oxidation base, and
- at least one 2,3,5-triaminopyridine coupler of formula (I), or a corresponding addition salt thereof:



Formula (I)

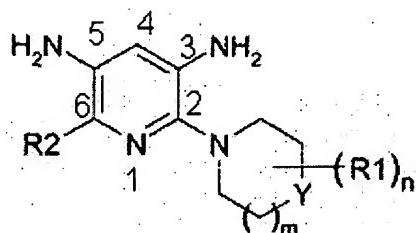
wherein:

- R_1 is chosen from:
 - a halogen atom;
 - a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, carboxyl, (C₁-C₄) alkoxy carbonyl, carboxamido, C₁-C₄ alkylsulphonyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonamido and NR₃R₄ radicals;
 - a carboxyl radical;
 - a (C₁-C₄)alkoxycarbonyl radical;
 - a carboxamido radical;
 - a (C₁-C₄)alkylcarboxamido radical;
 - a sulphinic radical;
 - a C₁-C₄ alkylsulphonyl radical;
 - a C₁-C₄ alkylsulphonamido radical;
 - a hydroxyl radical;
 - a C₁-C₄ alkoxy radical;
 - a C₂-C₄ hydroxyalkoxy radical;
 - a radical chosen from amino, monoaminoalkoxy and diaminoalkoxy radicals;

- a C₁-C₄ thioether radical;
 - a C₁-C₄ alkylsulphoxy radical;
 - a sulphonic radical; and
 - a radical NR₅R₆;
 - R₃, R₄, R₅ and R₆, which may be identical or different, are chosen from a hydrogen atom; a C₁-C₄ alkylsulphonyl radical; a (C₁-C₄) alkylcarbonyl radical in which the alkyl radical may be substituted with at least one hydroxyl radical; an arylcarbonyl radical, the aryl radical possibly being substituted with a radical chosen from hydroxyl, C₁-C₄ alkoxy, amino and (di)(C₁-C₄)alkylamino; a carboxamido radical; a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonyl, C₁-C₄ alkylsulphonamido, carboxyl, carboxamido, C₁-C₄ alkylsulphoxy, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals;
 - R₂ is chosen from a hydrogen atom, a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl and C₁-C₂ alkoxy radicals,
 - n ranges from 0 to 7,
 - m is 0, 1 or 2,
 - Y is chosen from an oxygen atom, a radical C(R₈)₂ and a radical NR₇ in which R₇ has the same meaning as R₃, and
 - R₈, which may be identical or different, is chosen from a hydrogen atom or has the same meaning as R₁, and
- a second compartment comprising an oxidizing composition.

27. (original) A kit for dyeing keratin fibers comprising a dye composition comprising, in a medium that is suitable for dyeing:

- at least one oxidation base, and
- at least one 2,3,5-triaminopyridine coupler of formula (I), or a corresponding addition salt thereof:



Formula (I)

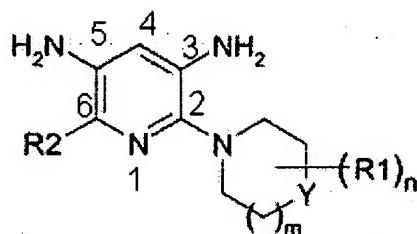
wherein:

- R_1 is chosen from:
 - a halogen atom;
 - a $\text{C}_1\text{-}\text{C}_4$ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, carboxyl, $(\text{C}_1\text{-}\text{C}_4)$ alkoxy carbonyl, carboxamido, $\text{C}_1\text{-}\text{C}_4$ alkylsulphonyl, $\text{C}_1\text{-}\text{C}_4$ alkoxy, $\text{C}_1\text{-}\text{C}_4$ alkylsulphonamido and NR_3R_4 radicals;
 - a carboxyl radical;
 - a $(\text{C}_1\text{-}\text{C}_4)$ alkoxy carbonyl radical;
 - a carboxamido radical;
 - a $(\text{C}_1\text{-}\text{C}_4)$ alkyl carboxamido radical;
 - a sulphinic radical;

- a C₁-C₄ alkylsulphonyl radical;
 - a C₁-C₄ alkylsulphonamido radical;
 - a hydroxyl radical;
 - a C₁-C₄ alkoxy radical;
 - a C₂-C₄ hydroxyalkoxy radical;
 - a radical chosen from amino, monoaminoalkoxy and diaminoalkoxy radicals;
 - a C₁-C₄ thioether radical;
 - a C₁-C₄ alkylsulphoxy radical;
 - a sulphonic radical; and
 - a radical NR₅R₆;
- R₃, R₄, R₅ and R₆, which may be identical or different, are chosen from a hydrogen atom; a C₁-C₄ alkylsulphonyl radical; a (C₁-C₄) alkylcarbonyl radical in which the alkyl radical may be substituted with at least one hydroxyl radical; an arylcarbonyl radical, the aryl radical possibly being substituted with a radical chosen from hydroxyl, C₁-C₄ alkoxy, amino and (di)(C₁-C₄)alkylamino; a carboxamido radical; a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonyl, C₁-C₄ alkylsulphonamido, carboxyl, carboxamido, C₁-C₄ alkylsulphoxy, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals;
 - R₂ is chosen from a hydrogen atom, a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl and C₁-C₂ alkoxy radicals,
 - n ranges from 0 to 7,
 - m is 0, 1 or 2,

- Y is chosen from an oxygen atom, a radical C(R₈)₂ and a radical NR₇ in which R₇ has the same meaning as R₃, and
- R₈, which may be identical or different, is chosen from a hydrogen atom or has the same meaning as R₁, and an oxidizing composition.

28. (original) A 2,3,5-Triaminopyridine compound of formula (I)



Formula (I)

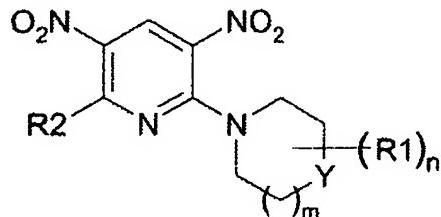
wherein:

- R₁ is chosen from:
 - a halogen atom;
 - a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, carboxyl, (C₁-C₄) alkoxy carbonyl, carboxamido, C₁-C₄ alkylsulphonyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonamido and NR₃R₄ radicals;
 - a carboxyl radical;
 - a (C₁-C₄) alkoxy carbonyl radical;
 - a carboxamido radical;

- a (C₁-C₄)alkylcarboxamido radical;
 - a sulphinic radical;
 - a C₁-C₄ alkylsulphonyl radical;
 - a C₁-C₄ alkylsulphonamido radical;
 - a hydroxyl radical;
 - a C₁-C₄ alkoxy radical;
 - a C₂-C₄ hydroxyalkoxy radical;
 - a radical chosen from amino, monoaminoalkoxy and diaminoalkoxy radicals;
 - a C₁-C₄ thioether radical;
 - a C₁-C₄ alkylsulphoxy radical;
 - a sulphonic radical; and
 - a radical NR₅R₆;
- R₃, R₄, R₅ and R₆, which may be identical or different, are chosen from a hydrogen atom; a C₁-C₄ alkylsulphonyl radical; a (C₁-C₄) alkylcarbonyl radical in which the alkyl radical may be substituted with at least one hydroxyl radical; an arylcarbonyl radical, the aryl radical possibly being substituted with a radical chosen from hydroxyl, C₁-C₄ alkoxy, amino and (di)(C₁-C₄)alkylamino; a carboxamido radical; a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonyl, C₁-C₄ alkylsulphonamido, carboxyl, carboxamido, C₁-C₄ alkylsulphoxy, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals;
 - R₂ is chosen from a hydrogen atom, a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl and C₁-C₂ alkoxy radicals,
 - n ranges from 0 to 7,

- m is 0, 1 or 2,
- Y is chosen from an oxygen atom, a radical C(R₈)₂ and a radical NR₇ in which R₇ has the same meaning as R₃, and
- R₈, which may be identical or different, is chosen from a hydrogen atom or has the same meaning as R₁.

29. (currently amended) A nitro compound of formula (II)



wherein:

- R₁ is chosen from:
 - a halogen atom;
 - a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, carboxyl, (C₁-C₄) alkoxy carbonyl, carboxamido, C₁-C₄ alkylsulphonyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonamido and NR₃R₄ radicals;
 - a carboxyl radical;
 - a (C₁-C₄) alkoxy carbonyl radical;
 - a carboxamido radical;
 - a (C₁-C₄) alkylcarboxamido radical;

- a sulphinic radical;
 - a C₁-C₄ alkylsulphonyl radical;
 - a C₁-C₄ alkylsulphonamido radical;
 - a hydroxyl radical;
 - a C₁-C₄ alkoxy radical;
 - a C₂-C₄ hydroxyalkoxy radical;
 - a radical chosen from amino, monoaminoalkoxy and diaminoalkoxy radicals;
 - a C₁-C₄ thioether radical;
 - a C₁-C₄ alkylsulphoxy radical;
 - a sulphonic radical; and
 - a radical NR₅R₆;
- R₃, R₄, R₅ and R₆, which may be identical or different, are chosen from a hydrogen atom; a C₁-C₄ alkylsulphonyl radical; a (C₁-C₄) alkylcarbonyl radical in which the alkyl radical may be substituted with at least one hydroxyl radical; an arylcarbonyl radical, the aryl radical possibly being substituted with a radical chosen from hydroxyl, C₁-C₄ alkoxy, amino and (di)(C₁-C₄)alkylamino; a carboxamido radical; a C₁-C₄ alkyl radical optionally substituted with at least one radical chosen from hydroxyl, C₁-C₄ alkoxy, C₁-C₄ alkylsulphonyl, C₁-C₄ alkylsulphonamido, carboxyl, carboxamido, C₁-C₄ alkylsulphoxy, amino, (di)(C₁-C₄)alkylamino and C₂-C₄ (poly)hydroxyalkylamino radicals;
 - R₂ is chosen from a hydrogen atom, a C₁-C₄ alkoxy radical optionally substituted with at least one radical chosen from hydroxyl and C₁-C₂ alkoxy radicals,
 - n ranges from 0 to 7,
 - m is 0, 1 or 2,

- Y is chosen from an oxygen atom, a radical C(R₈)₂ and a radical NR₇ in which R₇ has the same meaning as R₃, and
- R₈, which may be identical or different, is chosen from a hydrogen atom or has the same meaning as R₁

with the proviso that when Y is NR₇, where R₇ is a hydrogen atom, n is 0 and m is 1, R₂ is not a hydrogen atom.